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<110> GeneMatrix Inc.; Kim, Nam-Keun
<120> Method for detecting base mutation
<130> 11281-014-999
<150> KR2002-0063832
<151> 2002-10-18
<150> KR2003-0061066
<151> 2003-09-02
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<213> Homo sapiens
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tgaatgcag 69

<210> 2
<211> 34
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<213> Artificial Sequence

<220>
<223> Forward primer for 4th intron region of maspin gene

<400> 2
tcacttgata aagcaataaa aggatggcta ttca 34

<210> 3
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer for 4th intron region of maspin gene

<400> 3
cattcaaaag aagggtgtag cctcatgc 28

<210> .4
<211> 68
<212> DNA
<213> Artificial Sequence

<220>
<223> Resulting PCR Fragment

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<400> 4		
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tttgaatg	68	
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<211> 68		
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<220>		
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<400> 5		
cattcaaaaag aagggtgtag cctcatgcag ctagtgaata gccatccctt tattgcttta	60	
tcaagtga	68	
<210> 6		
<211> 73		
<212> DNA		
<213> Homo sapiens		
<400> 6		
ctggagttt atccttgcag gcttgatatg aagcttgaaa tttctccca aagagattta	60	
gttaacaggc aaa	73	
<210> 7		
<211> 34		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Forward primer for 4th intron region of maspin gene		
<400> 7		
gaggattatc cttgcaggct tggatgatat gaag	34	
<210> 8		
<211> 29		
<212> DNA		
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<223> Reverse primer for 4th intron region of maspin gene		
<400> 8		
gcctgttaac taaatctctt tggggagaa	29	
<210> 9		

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<211>    72
<212>    DNA
<213>    Artificial Sequence

<220>
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<400>    9
gagttattatc cttgcaggct tggatgatat gaagcttga aatttctccc caaagagatt      60
tagttaacag gc                                         72

<210>    10
<211>    72
<212>    DNA
<213>    Artificial Sequence

<220>
<223>    Resulting PCR Fragment

<400>    10
gcctgttaac taaatctctt tggggagaaa tttcaaagct tcataatcatc caagcctgca      60
aggataatac tc                                         72

<210>    11
<211>    60
<212>    DNA
<213>    Hepatitis B virus

<400>    11
ttcccccact gtttggcttt cagttatatg gatgatgtgg tattggggc caagtctgta      60
                                         60

<210>    12
<211>    31
<212>    DNA
<213>    Artificial Sequence

<220>
<223>    Forward primer for HBV

<400>    12
ttcccccact gtttggctgg atgtcagtta t      31

<210>    13
<211>    30
<212>    DNA
<213>    Artificial Sequence

<220>
<223>    Reverse primer for HBV

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<400> 13	tacagacttg gcccccaata ccacatgatc	30
<210> 14		
<211> 64		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Resulting PCR fragment		
<400> 14	ttcccccaact gttggctgg atgtcagtta tatggatcat gtggtattgg gggccaagtc	60
tgta		64
<210> 15		
<211> 64		
<212> DNA		
<213> Artificial Sequence		
<220>		
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ggaa		64
<210> 16		
<211> 244		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> 5'Noncoding region of HCV		
<400> 16	gcagaaaagcg tctagccatg gcgttagtat gagtgcgtg cagcctccag gaccccccct	60
ccggggagag ccatagtggt ctgcggAACCC ggtgagtaca ccggaaattgc caggacgacc		120
gggtcccttc ttggatcaac ccgcgtcaatg cctggagatt tgggcgtgcc cccgcaagac		180
tgctagccga gtagtgttgg gtcgcgaaag gccttgtgg actgcctgat agggtgcttg		240
cgag		244
<210> 17		
<211> 24		
<212> DNA		
<213> Artificial Sequence		

<220>  
 <223> Forward primer of 5'NCR of HCV

<400> 17  
 gcagaaagcg tctagccatg gcgt

24

<210> 18  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Reverse primer of 5'NCR of HCV

<400> 18  
 ccctatcaagg cagtaccaca aggc

24

<210> 19  
 <211> 226  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Resulting PCR fragment

<400> 19  
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60

agccatagtg gtctgcggaa ccggtgagta caccgaaatt gccaggacga ccgggtcctt

120

tcttggatca acccgctcaa tgcctggaga tttggcgtg ccccccgaag actgctagcc

180

gagtagtgtt gggtcgcgaa aggccttgtg gtactgcctg ataggg

226

<210> 20  
 <211> 32  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Forward primer

<400> 20  
 cgtctagcca tggcgtagg gatgatgagt gt

32

<210> 21  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Reverse primer

<400> 21	24
ccctatcagg cagtaccaca aggc	
<210> 22	
<211> 230	
<212> DNA	
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<220>	
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ggagagccat agtggctgc ggaaccgggt agtacaccgg aattgccagg acgaccgggt	120
cctttcttgg atcaacccgc tcaatgcctg gagatttggg cgtcccccg caagactgct	180
agccgaatgt tagtgggtcg cgaaaggcct tgtggtaactg cctgataggg	230
<210> 23	
<211> 230	
<212> DNA	
<213> Artificial Sequence	
<220>	
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<400> 23	
ccctatcagg cagtaccaca aggcctttcg cgacccaaca ctactcgct agcagtcttg	60
cgggggcacg cccaaatctc caggcattga gcgggttgat ccaagaaagg acccggtcgt	120
cctggcaatt ccgggtgtact caccgggttcc gcagaccact atggctctcc cgggaggggg	180
ggtcctggag gctgcacgac actcatcatc cctaacgcca tggctagacg	230
<210> 24	
<211> 133	
<212> DNA	
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<223> Template DNA	
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gtggctcgca acccggtga gtacaccggta attgccagga cgaccgggtc ctttcttgg	60
tcaacccgct caatgcctgg agatttgggc gtgcccccgca aagactgcta gccgagtagr	120
gttgggttgtc gaa	133
<210> 25	

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<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer

<400> 25
gtggtctgtc caaccggta gtacaccgga at 32

<210> 26
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 26
ttcgcraccc aacrctactc caacggtccg gctag 35

<210> 27
<211> 142
<212> DNA
<213> Artificial Sequence

<220>
<223> Resulting PCR fragment

<400> 27
gtggtctgtc caaccggta gtacaccgga attgccagga cgaccgggtc ctttcttgga 60
tcaacccgct caatgcctgg agatttgggc gtgccccgc aagactgcta gccggaccgt
tggagtagrg ttgggtrgct aa 120
142

<210> 28
<211> 142
<212> DNA
<213> Artificial Sequence

<220>
<223> Resulting PCR fragment

<400> 28
ttcgcraccc aacrctactc caacggtccg gctagcagtc ttgcgggggc acgccccaaat 60
ctccaggcat tgagcgggtt gatccttcaa aggacccggc cgtcctggca attccgggtgt
actcaccggc tggacagacc ac 120
142

<210> 29
<211> 59

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<212>      DNA
<213>      Artificial Sequence

<220>
<223>      Template DNA

<220>

<221>      modified_base
<222>      (4)
<223>      i

<400>      29
gacngggtcc tttcttggat caacccgctc aatgcctgga gatttggcgc tgcccccg      59

<210>      30
<211>      23
<212>      DNA
<213>      Artificial Sequence

<220>
<223>      Forward primer

<220>
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<223>      i

<400>      30
gacngggtcc tggatgtctt gga                                         23

<210>      31
<211>      22
<212>      DNA
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<220>
<223>      Reverse primer

<400>      31
gcgggggcac ggatgcccaa at                                         22

<210>      32
<211>      67
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<220>
<223>      Resulting PCR fragment

<220>
<221>      modified_base

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<222> (4)  
<223> i

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cccccgc 67

<210> 33  
<211> 67  
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<220>  
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<220>  
<221> modified\_base  
<222> (4)  
<223> i

<400> 33  
gcgggggcac gatgccccaa atctccaggg attgagcggt ttgatccaaag acatccagga 60  
cccnngtc 67